SKRIPSI

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PENGARUH KEPOLARAN PELARUT PADA SINTESIS OKTIL 3-HIDROKSISINAMAT DARI BAHAN AWAL ASAM 3-HIDROKSISINAMAT

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Lembar Pengesahan

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ABSTRACT

The aim of this research is to compare the effect of polarity of solvent in the synthesis of octyl-3-hydroxycinnamate. The solvent used in this research were tetrahydrofuran (THF) and benzena. Tetrahydrofuran (THF) has dielectric constant 7,58 and dipole moment 1,74, while benzena has dielectric constant 2,28 and dipole moment 0. The resulted compound in tetrahydrofuran (THF) was liquid in room temperature and the colour was brownish yellow. It gave 49,43 % yields. The identification of the resulted compound was done by TLC test, refractive index, UV-Vis spectrophotometry, FT/IR spectrophotometry and gas chromatography-mass spectra (GC-MS).

There were no resulted compound in benzena. 3-hydroxycinnamic acis as starting material was not solvated in benzena so the ionization can't occur and octyl 3-hydroxycinnamate can't be resulted.

Key word : esterification reaction, benzena, tetrahydrofuran, octyl 3-hydroxycinnamate